

ABSTRACT

2 When individual persons or vehicles move through a transportation
3 network, they are likely to be both actively and passively creating information that
4 reflects their location and current behavior. In this patent, we propose a system
5 that makes complete use of this information. First, through a broad web of
6 sensors, our system collects and stores the full range of information generated
7 by travelers. Next, through the use of previously-stored data and active
8 computational analysis, our system deduces the identity of individual travelers.
9 Finally, using advanced data-mining technology, our system selects useful
10 information and transmits it back to the individual, as well as to third-party users;
11 in short, it forms the backbone for a variety of useful location-related end-user
12 applications.